

## CLAIMS

1. A polyester fiber comprising polyethylene terephthalate at 90 mol% or higher of a whole repeating unit in a molecular chain thereof, the fiber having an intrinsic viscosity [IV] of 0.85 dl/g or higher and simultaneously meeting the following characteristics:

- (a) strength  $\geq 6.0$  cN/dtex;
- (b) strength x (breaking elongation)<sup>0.5</sup>  $\leq 26.0$  cN/dtex.%<sup>0.5</sup>;
- (c) monofilament linear density  $\leq 5.0$  dtex; and
- (d) main dispersion peak temperature of loss tangent (tan  $\delta$ ) in the measurement of dynamic viscoelasticity at 110 Hz  $\leq 147.0^\circ\text{C}$ .

2. The polyester fiber according to claim 1, wherein the strength x (breaking elongation)<sup>0.5</sup> is 25.0 cN/dtex.%<sup>0.5</sup> or lower.

3. The polyester fiber according to claim 1, wherein the strength x (breaking elongation)<sup>0.5</sup> is 24.0 cN/dtex.%<sup>0.5</sup> or lower.

4. The polyester fiber according to claim 1, wherein the strength x (breaking elongation)<sup>0.5</sup> is 23.0 cN/dtex.%<sup>0.5</sup> or lower.

5. A polyester dipped cord, which is obtainable by twisting one or more than one base yarn together into a pretwisted yarn, where the base yarn is made of a polyester fiber according to any one of claims 1 to 4; twisting two or more pretwisted yarns together into a greige cord; and subjecting the greige cord to dip treatment to give a dipped cord simultaneously meeting the following characteristics:

- (a) tenacity conversion efficiency in the dip treatment (dipped cord tenacity / greige cord tenacity)  $\geq 96\%$ ; and
- (b) elongation at a specific load + dry heat shrinkage  $\leq 7.5\%$ .

6. The polyester dipped cord according to claim 5, wherein the tenacity conversion efficiency in the dip treatment (dipped cord tenacity /

greige cord tenacity) is 98% or higher.

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